1122 C&O.

Lima Locomotive Works
Incorporated

LIMA, OHIO, U. S. A.

Locomotive Tender

Chesapeake & Ohio

CARD INDEX

Class 12 Wheel 23500 Gallon. Dept. Drawing Room.

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
C.O. 1122	7516 - 7555	6-30-1930	
		19	
		19	
		19	
		19	

FORM LED 32

1122 C&O RR.

Index to Classification of Drawings

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15 Bolts and Nuts—Studs, Pins and Bushings
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Coupler—See 86.
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85 Tender Frames—Front and Back Bumpers.
86 Tender Drawgear—Buffer, Chafing Plate, Coupler and Rigging, Drawhead F. and B.
87 Tender Deck, Tool Box, Water Cooler.
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89 Tender Truck, Bolster and Guides, Spring Seats and Plank.
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98 Clearances and Wheel Base Diagrams.
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ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS	Check	Date	ITEMS	Check
7-7-30	13-29.30	ED			
7-7-30	12-51.52.53.54.55.56.57.58	"			
7-7-30	11-35.36.37.38.39.40.51.52	"			
7-7-30	5-54	"			
7-8-30	6-1,47.48.49.50	S			
7-8-30	12-48.49	S			
7-8-30	5-14.15.16.17.18.19.20.58	S			
7-8-30	7-45.46.61	S			
7-8-30	12-4.5.8.48.49	S			
7-10-30	4-13	S			
7-14-30	13-1.29.31.41	S			
7-18-30	12-9.10.19.20.21.22-23.27.29.25.26	ED			
7-19-30	2-33.34	"			
7-19-30	4-14.15.16.18.12.11	"			
7-21-30	5-28.29.30.32.33.34.53.59.60.61	"			
7-24-30	3-31	"			
7-24-30	5-9.10.11.12.40.51	"			
7-24-30	6-51.52.	"			
7-24-30	10-1.22.23	"			
7-29-30	11-53.54.55.57.58	S			
7-29-30	7-54.55	S			
7-31-30	12-34.35	S			
7-31-30	4-15	S			
7-31-30	13-22.23	S			
8-4-30	7-57	ED			
8-6-30	4-4	"			
8-6-30	6-53	"			
8-6-30	2-27.34	"			
8-7-30	2-26.27	S			
8-7-30	2-28	"			
8-9-30	12-36	"			
8-9-30	12-38-39	"			
8-11-30	3-36	"			
8-13-30	11-49	"			
8-14-30	12-19.20.21.22.23.25.26.27.29	S			
8-15-30	5-52	S			
8-21-30	4-50-56 Inc.	S			
8-23-30	5-35,36,37,42,43,44	S			
"	10-31	S			
"	12-5,8	S			
"	4-15,16	S			
8-26-30	12-5,8	S			
8-27-30	4-15	S			
"	4-17	S			
"	6-54,55	S			
"	5,-14-20 Inc., 37,44,56,58	S			
"	10-59	S			
8-28-30	5-29	S			
"	5-27,38,45	S			
8-29-30	5-46	S			
9-5-30	12-40	S			
9-25-30	5-47.48	S			

† 1122 C&O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 11—AXLES								
D	1	Axle	6	112 A 194	7"x14 ord	—	—	—	—	—
	2	"								
D	3	" Marking		112 A 206	—	—	—	—	—	—
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13	**GROUP 15—BOLTS AND NUTS**								
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25	**GROUP 17—BOXES, TRUCK**								
D	26	Box ~~to Lid~~	11	T.H. Symington	Pt P-138-1 ord	—	—	—	—	—
D	27	~~Add~~ With Train Control Lug	1	"	Pt P-354 R.S. ~~Rear~~ Front of Front Truck		—	—	—	—
D	28	~~—~~ Lid	12	"	Pt. P-141 B					
	29	" " Spring	—							
				172 A-132						
D	30	" Journal Brass 7"x14"	12	A.R.A N.B. M.Co.	ord	—	—	—	—	—
D	31	" " Wedge 7"x14"	12	"	Drop Forged ord	—	—	—	—	—
D	32	" Dust Guard 7"x14	12	Chaton Fibre	#200 ord	—	—	—	—	—
D	33	" Cooler Hose Location	11	172 A-153	End Boxes Drilled Toward Inside Middle " " " Rear		—	—	—	—
D	34	" " " " For Train Control	1	172 C-153	Drilling Toward ~~Front~~ Rear		—	—	—	—
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45	**GROUP 35—DIE WORK**								
	46									
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 49—GAUGES, TEMPLATES & JIGS								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 53—HANDRAIL AND STEPS**								
	22	Handrail	—							
	23	"	—							
	24	" Column	—							
	25	" "	—							
	26	" "	—							
	27	" Ball	—							
	28	" Flange	—							
	29	" "	—							
	30									
P	31	Bumper Handle	2	532A 628	—	532 A628	—	—	—	— 7/21 7/18
	32	" "	—							
P	33	Tank " Front R L	1 1	532 D-548	—	532 D-548	—	—	—	—
P	34	" " Rear R L	1 1	"	—	532 D-548	—	—	—	—
P	35	" " Across Rear	1	880 A 30	—	53 E-208	—	—	—	—
P	36	" " Tool Closet Door	1	"	—	53 A 257	—	—	—	—
	37									
	38									
	39									
	40									
	41									
	42									
P	43	Steps—Front R L	1 1	532 D 623	—	532 D-623	—	—	—	—
P	44	Front Step ~~Hanger~~ Tread	4	532 C 623	—	532 C-623	—	—	—	—
P	45	" " Brace	2	532 E 623	—	532 E-623	—	—	—	—
P	46	Steps—Back	2	532 C-624	—	532 C-624	—	—	—	—
P	47	Back Step ~~Hanger~~ Tread	4	532 C 623	—	532 C-623	—	—	—	—
P	48	" " Brace	2	532 D-624	—	532 D-624	—	—	—	—
P	49	Tank Step, Deck	2	532 A 8	—	—	R-87-1 53-158 ✓	—	—	—
	50	" "	—							
P	51	Tank Ladder—Outside	1	532 B 554	—	532 B-554	—	—	—	—
P	52	" " —Inside	1	532 A 614	—	532 A 614	—	—	—	—
P	53	" " Top of Tank	1	532 C-614	—	532 C-614	—	—	—	—
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS AND SIGNAL ATTACHMENTS								
	1	Signal Fixtures—Location	—							
	2	Flag Socket	—							
	3	Marker Bracket	—							
✓	4	Lamp Bracket	2	542 A 547	—	—	—	—	54-614	—
	5	" Hook	—							
	6	Pail Hook	—							
	7	Headlight Bracket	—							
	8	" Shelf	—							
✓	9	Back Up Lamp	1	543 A 87	Oliver Type. Pyle Nat # 2050 N.C.A Old		—	—	—	
	10	License Plate	—							
✓	11	Ownership Plate	2	542 A 555	R. & L. Midway Bol Truck Ctrs	—	—	—	54-620	—
✓	12	~~Number~~ Patent "	1	5"x2"x ¼" Plate	C & O Stamped with Nos. 1635-1654 inc H.V. " " " 1655-1674 "	R.S. Between Bolsters	—	—	—	—
✓	13	Back Up Lamp Liners	2	542 A 551	With Studs & Lock Washers as Shown		—	—	—	—
✓	14	Tender Electric Wiring		543 A 87	Matl. Ord	Extra Clamps & Drilling To Suit Shop	—	—	—	—
✓	15	" " " Conduit Clamp	#87	"	—	63 P-63	—	—	—	—
✓	16	" " " " "	3	"	"J" Bolt.	54-J-~~54~~ 34	—	—	—	—
✓	17	Stoker Light Bracket	1	542-B-550	5/16" Plate	—	—	—	—	—
✓	18	Conduit Brackets	2	542 A 552	With Studs	—	—	—	—	—
	19									
	20									
	21	**GROUP 57—LAGGING AND JACKET**	—							
	22	Steam Pipe Lagging	—							
	23	" " "	—							
	24	" " Jacket	—							
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33	**GROUP 59—OIL AND GREASE CUPS**	—							
	34	Truck Oil Cup	—							
	35	" " " Cap	—							
	36									
	37	Stoker Oil Cup	—							
	38	" " " Cap	—							
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49	**GROUP 61—PA'TING, LET'RING & NUM'G**								
✓	50	~~Tender Lettering~~ COAL CAPACITY DIAGRAM		613-A-7	—	—	—	—	—	—
✓	51	Coal Capacity NUMBERS	2	All Numbers To Be STD. 2" Gothic Numbers			NUMBER 0			
✓	52	" " "	5				NUMBER 1			
✓	53	" " "	8				NUMBER 2			
✓	54	" " "	3				NUMBER 4			
✓	55	" " "	3				NUMBER 6			
✓	56	" " "	3				NUMBER 8			
	57									
	58									
	59									
	60									
	61									

X 1122 C&O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOW								
	1	Pilot	—							
	2	" Band	—							
	3	" Brace	—							
	4	" "	—							
	5	" Bottom Plate	—							
	6	" Bracket	—							
	7	" Corner Iron	—							
	8	" Knee	—							
D	9	Group 63 - Pipe Fittings & Clamps								
P	10	Pipe Clamp 1¼"	7	850 A 11	Wright. Illinois	Ry Equipt Co # 3091 ord	—	—	—	— 7/21 ⊕ 7/18
P	11	" " 3/4"	3	"	" "	" " # 045 ord	—	—	—	— 7/21 ⊕ 7/18
P	12	" " 3/4 x 1¼"	1	"	—	560 S-301	—	—	—	— 7/21 ⊕ 7/18
	13	~~Snow Plow~~								
S	14	Pipe Clamp. U. Bolt.	2	644 B 52	—	63 H-33	—	—	—	— 7/7 ⊕ 7/5
S	15	" "	1	"	—	63 J-63	—	—	—	— 7/7 ⊕ 7/5
S	16	Reverse Valve Clamp. U. Bolt.	1	"	—	63 D-33	—	—	—	— 7/7 ⊕ 7/5
S	17	" " " Bracket	1	"	—	63 E-7	—	—	—	— 7/7 ⊕ 7/5
S	18	Pipe Support	2	"	3"x3"x 3/8 x 8" Angle	—	—	—	—	— 7/7 ⊕ 7/5
S	19	" "	1	"	—	63 D-202	—	—	—	— 7/7 ⊕ 7/5
S	20	" Clamp.	X	~~"~~	~~Locate to Suit~~	63 L-63	—	—	—	— 7/7 ⊕ 7/5
	21	**GROUP 63—PIPE FITTINGS AND CLAMPS**								
	22	Box Cooler Hose	See Group 82							
	23	" " Fitting	—							
	24	" " " Nut	—							
	25	" " " Swivel	—							
	26									
V	27	Pipe Clamp	1	649 A 69	—	63-L-6	—	—	—	—
P	28	Pipe Clamp	3	649 A 69	—	63 A 40	—	—	—	— 7/18 ⊕ 7/10
P	29	" "	~~B~~ 2	"	Locate to ~~Suit~~ Shop	63 M-63	—	—	—	— 7/18 ⊕ 7/10
P	30	" "	1	"	—	63 B-96	—	—	—	— 7/18 ⊕ 7/10
P	31	" "	3	632 F-677	—	63 B 94	—	—	—	— 7/18 ⊕ 7/10
P	32	" Hanger	3	649 A 69	2"x2"x¼" Angles					7/18 ⊕ 7/10
P	33	" "	1	"	~~Locate to~~ Suit Shop	63-H-7	—	—	—	— 7/18 ⊕ 7/10
P	34	" "	3	632 F 677	—	63 A 24	—	—	—	— 7/18 ⊕ 7/10
P	35	" "	1	850-A-11	—	63-F-220	—	—	—	—
P	36	" ~~Manifold Air Brake~~	1	"	—	63-H-220	—	—	—	—
P	37	" "	1	644-B-52	—	63-J-220	—	—	—	—
P	38	" " ~~Support~~	1	649-A-69	—	63-A-288	—	—	—	—
	39	" " "								
P	40	Angle Cock Holder	1	632 B-883	4"x6"x ½" Angle Cut as Shown		—	—	—	— 7/24 ⊕ 7/18
	41	Water Joint Support								
P	42	Pipe Clamp "U" Bolt	1	850-A-11	—	63-A-233	—	—	—	—
P	43	" " " "	1	"	—	63-B-98	—	—	—	—
P	44	" " " "	1	644-B-52	—	63-E-233	—	—	—	—
P	45	" " " "	1	649-A-69	—	63-D-233	—	—	—	—
P	46	" "	1	644-B-52	—	63-M-6	—	—	—	—
P	47	" Clamp. (Conveyor grease Line)	1	—	Begin on #17	63 F-233	—	—	—	—
P	48	" " Support(" " ")	1	—	2½"x3"x 3/8" Angle. 4" Lug. Weld to Conveyor		—	—	—	—
	49									
	50	**GROUP 64—PIPING ARRANGEMENTS**								
P	51	Piping Arrangement Air Brake		850 A 11	Extra Clamps & Drilling to Suit Shop	—	—	—	—	— 7/21 ⊕ 7/18
P	52	" " Bet. Eng & Tender		640 A 92	All Filler Blocks to Suit Shop	—	—	—	—	—
P	53	Sprinkler Piping		649 A 69	Galv. Pipe Ord	—	—	—	—	— 7/12 ⊕ 7/10
P	54	" Pipe Flange	1	642 A 85	—	—	64-1 ✓	—	—	— 7/3 ⊕ 7/2
	55	Steam Heat Piping	—							
P	56	Stoker Eng Piping		644 B 52	Extra Clamps & Drilling to Suit Shop	—	—	—	—	— 7/7 ⊕ 7/5
	57	Coal Pusher Piping	—							
P	58	Stoker Eng Exhaust Pipe Flanges	1 set	644 B 52	# 6	—	—	—	—	—
P	59	Sprinkler Hose Sleeve	1	649 A 69	—	—	—	—	Stick Brass	—
P	60	" " Nozzle	1	"	—	—	—	—	Stick Brass	—
P	61	" " " Shield.	1	"	1½" pipe Bent as Shown & Welded to Tank	—	—	—	—	—

1122 C×O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS, HANDHOLES AND WASHOUTS								
8	1	Washout Plugs. (Tender Frame)	2	2½" at Point 12 thd. Taper 1½"in12"	Prime Mfg. Co		ord	—	—	—
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9	**GROUP 71—RUN'G BOARDS & BRACK'TS**								
	10	Running Board	—							
	11	" "	—							
	12	" " Bracket	—							
	13	" " "	—							
	14	" " "	—							
	15	" " "	—							
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 73—SAND BOX AND RIGGING**								
	22	Sand Box	—							
	23	" " Brace	—							
	24	" " Handle	—							
	25									
	26									
	27									
	28									
	29	**GROUP 76—SPRINGS**								
8	30	Truck Spring	12	762 B-210	ord	—	—	—	—	—
8	31	" " Coil	8	762 A-214	ord	—	—	—	—	—
	32	" " Clip	—							
	33	" " End Block	—							
	34	Buffer Spring	—							
	35	Coupler Spring	—							
	36	Draw Spring	—							
	37	" "	—							
	38	Water Scoop Spring	—							
	39	" " "	—							
	40	Brake Beam Leveling Spring	—							
	41									
	42									
	43									
	44									
	45									
	46	**GROUP 80—STOKER AND DETAILS**								
8	47	Stoker Reverse Valve Rod	1	802 A 50	—	802 A 50	—	—	—	—
8	48	" " " Handle	1	802 B-50	—	802 B-50	—	—	—	—
8	49	" " " Fulcrum	1	802 C 50	—	—	80-167 ✓	—	—	—
8	50	" " " Quadrant	1	802 D-50	—	—	80-168 ✓	—	—	—
8	51	Stoker Eng. Blocks (outside)	2	850 A 11	2"×4½"×6½" Fin. Top & Bottom & Welded to Frame		—	—	—	—
8	52	" " " Inside	2	"	2"×4"×6½" " " "		" " " & Plate	—	—	
8	53	" Reverse Lever Latch Pin	1	—	With about 12" of ⅜" Fire Door Chain	60-A-39	—	—	—	—
8	54	" Cock Ext. Handle	1	644-B-52	—	80-A-11	—	—	—	—
8	55	" " " " Brkt.	1	"	—	80-A-12	—	—	—	—
	56									
	57									
	58									
	59									
	60									
	61									

(Group 80 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 80—STOKER AND DETAILS (Cont.)								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
D	17	Group 82 Tank Valves & Cocks								
D	18	Box Cooler Tap Cap	12	822 A 164	—	—	—	—	Stick	—
D	19	" " Fitting in Truck Box	12	822 B-164	—	—	—	—	Stick	—
D	20	" " Standpipe	3	822 C-164	3/4" Ex Hvy Pipe	—	—	—	—	—
D	21	" " " "	1	822 D-164	" " "	—	—	—	—	—
D	22	" " Hose Sleeve	8	822 E-164	—	—	—	—	Stick	—
D	23	" " " Nut	8	822 F 164	—	—	—	—	Stick	—
D	24	" " " Support	6	822 A 163	—	822 A 163	—	—	—	—
D	25	" " " "	1	822 B 163	—	822 B-163	—	—	—	—
D	26	" " " "	1	822 C-163	—	822 C-163	—	—	—	—
D	27	" " Hose Arrgt		822 C 162	See Note	—	—	—	—	—
D	28	" " " "		822 D 162	" "	—	—	—	—	—
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44	**GROUP 82—TANK VALVES AND COCKS**								
D	45	Tank Valve & Arrangement	2	822 A 166	4" Powell Std Fig-401	—	—	—	—	—
D	46	" " ~~Body~~ Plate	2	"	5/8" Plate x 14" Dia.	—	—	—	—	—
	47	" " Seat	—							
	48	" " Shaft	—							
	49	" "	—							
	50	" " Rod	—							
	51	" " Lift	—							
	52	" " Handle	—							
	53	" " Gland	—							
D	54	" " Goose Neck L.S.	1	(R.R. Dwg 82-2-20-A) 822 A 168	—	—	—	—	R-82-24 82-475 A	—
D	55	" " ~~Nut~~ " R.S.	1	822 A 167	—	—	—	—	R-82-16 82-485	—
	56	" " Sleeve	—							
D	57	" " Hose ~~Nut~~ Clamps	2	(R.R. Dwg. 82-2-32-C) 822 B-142	—	—	—	R-82-26 82-460	—	—
	58	" " " Swivel	—							
	59	Tank Valve Flange	—							
	60	" " "	—							
D	61	" " Strainer	2	822 B 120	Galv. Wire Netting 3 X 3 Mesh .05 Wire Std	—	—	—	—	—

(Group 82 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VAL. AND COCKS (Cont.)								
	1	Tank Well	—							
	2	" " Plug	—							
	3	" Syphon	—							
	4	" " Pipe Support	—							
	5	" " Brace	—							
	6									
	7									
	8	Tank Try Cock Arrgt		822 A 158	—	—	—	—	—	—
	9	~~Oil Tank Plug~~ " " " Body	1	"	—	—	—	—	82-481	—
	10	~~" " Valve~~ " " " Plug	1	"	—	—	—	—	82-96	—
	11	~~" " " Seat~~ " " " Nut	1	"	—	—	—	—	Hex	—
	12	~~" " " Rod~~ " " " Washer	1	"	—	—	—	—	Stock	—
	13	~~" " " Arm~~ " " " Pipe	1	"	1" Pipe. Bosses Welded as Shown		—	—	—	—
	14	~~" " " Gland~~ " " " Rod Nut	1	"	—	—	—	—	82-99	—
	15	~~" " " "

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 84—TENDER BRAKE (Cont.)								
	1	Body Brake Sheave	—							
	2	" " " Support	—							
	3	" " Shaft	—							
	4	" " " Cap	—							
	5	" " " Hanger	—							
	6	" " " Step	—							
	7	" " " Wheel	—							
	8	" " " Handle	—							
	9	" " " Pawl	—							
	10	" " " " Plate	—							
	11	" " " Ratchet	—							
	12	" " " Weight	—							
P	13	" " Cylinder	1	A.S.F Print 81682	18"x12 Type J Passenger Brake Cylinder		—	—	—	
	14	" " " Head	—							
	15	" " " "	—							
	16	" " " Support	—							
P	17	" " Pins	1-Set	A.S.F. ord	—	—	—	—	—	
	18	" " "	—							
	19	" " "	—							
	20	" " "	—							
	21	Tender Brake Piston	—							
	22	" " " Follower	—							
	23	" " " Ring	—							
	24	" " " Rod	—							
	25	Brake Reservoir Hanger	—							
	26	" " Strap	—							
	27	Hand Brake Arrangement	—							
	28	" " Rod	—							
	29									
	30									
	31									
	32									
	33									
	34									
P	35	Truck Brake Arrgt & Details	1-Set	A.S.F. Print 81685	Ord	—	—	—	—	—
	36	" " Beam	—							
P	37	" " " Safety Hangers	8	842 D-57	—	842 D-57	—	—	—	—
P	38	" " " " " R 2 L 2		842 C-78	—	842 C-78	—	—	—	—
P	39	" " " ~~Support~~ " " R 2 L 2		842 D-78	—	842 D-78	—	—	—	—
	40	" " " Safety Chain	—							
	41	" " " " Bar	—							
	42	" " " Leveling Eyebolt	—							
	43	" " Head	—							
P	44	" " Shoe	24	A.B.S. & F.Co Diamond "S" 2" Unflanged Steel Back	Ord	—	—	—	—	
P	45	" " " Key	24	A.R.A.	ord	—	—	—	—	
	46	" "	—							
	47	" " Lever	—							
	48	" " " Guide	—							
	49	" " Dead Lever	—							
	50	" " " " Anchor	—							
	51	" " " " " Lug	—							
	52	" " Lever Rod	—							
	53	" " " "	—							
P	54	" " Pins	1-Set	A.S.F. dry. Ord	—	—	—	—	—	
	55	" " "	—							
	56	" " "	—							
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 85—TENDER FRAME								
P ✓	1	Frame	1	850 A 11	Genl. Steel Cstgs Co # 21907-F	Ord	—	—	—	— 7/21 ⊕ 7/18
	2	" Center Sill	—							
	3	" Side Sill	—							
	4	" End Sill	—							
	5	" Corner Angle	—							
	6	" " Bracket	—							
	7	" " Knee	—							
	8	" Brace	—							
	9	" "	—							
	10	" "	—							
	11	" Filling	—							
	12	" "	—							
	13	"	—							
	14	" Bolster	—							
	15	" " Angle	—							
	16	" " Plate	—							
	17	" " Truss Bar	—							
	18	" " " Brace	—							
	19	" " " Plate	—							
	20	" "	—							
	21	" " Tie Plate	—							
P ✓	22	" Center Plate	1	850 A 11	Genl. Steel Cstgs Co # 21907	Ord	—	—	—	—
P	23	" Side Bearing Wearing Plate	4	"	½" x 4½" x 15" Welded To Frame		—	—	—	—
	24	" " "	—							
	25	Push Pole	—							
	26	" " Collars	—							
	27	" " Pocket	—							
	28	" " Support	—							
	29	" " Stop	—							
P	30	Wrecking Frog Brackets	2	852 A 70	Cmplte.	852 A 70	—	—	—	—
P	31	Switch ~~Rope~~ CHAIN Hooks	1	850-A-11	—	85-A-55	—	—	—	—
	32	Check Chain	—							
	33	" " Pocket	—							
	34	" " Hook	—							
	35	Tender Floor	—							
	36	" " Edge	—							
	37	Bumper—Front	—							
	38	" —Back	—							
	39	Tender Floor Anchor	—							
	40									
	41									
	42									
	43									
	44									
	45									
	46									
P	47	GROUP 86—TENDER DRAWGEAR	1	863 A 86	Waugh Gould #403	Ord	—	—	—	—
P	48	Coupler	1	"	Natl. Malleable Steel Cstgs Co # 21216 A	Ord	—	—	—	—
P	49	" ~~Pocket~~ Wearing Plate	1	"	½" x 3½" x 11" Plate		—	—	—	—
P	50	" Followers	1	"	—	2½" x 9" x 12½"	—	—	—	—
P	51	" Yoke	1	"	Buckeye. Print # B3343 A	Ord	—	—	—	—
	52	" " Filler	—							
	53	" Follower Guide	—							
	54	" Carry Iron	—							
	55	" Chain	—							
	56	" " Clevis	—							
P	57	Drawbar Pin	1	862 E 73	Matl. Ord	862 E 73	—	—	—	—
P	58	" " Support	1	372 M-10	¾" Plate	372 M-10	—	—	—	—
P	59	~~Safety Chain Pin~~ Flat Split Key	1	—	To Suit	—	—	—	—	—
P	60	Draft Gear ~~Check Casting~~ Key Retainer	1	862 D-66	—	862 D-66	—	—	—	—
P	61	" " Key	1	862 A 90	—	862 A 90	—	—	—	—

(Group 86 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 86—TENDER DRAWGEAR (Cont.)								
P	1	Draft Gear Carrier	1	863 A 86	3/4" x 14 1/2" x 24" Plate		—	—	—	—
	2	Drawhead Brace	—							
P	3	Uncoupling Shaft Complete	1	862 A 89	Union Metal Products Co ord		—	—	—	—
P	4	" " ~~Arm~~ Lock Lifter	1	"	" " " " ord		—	—	—	—
P	5	" " Bracket Outside	2	862 A 88	" " " " ord		—	37-1	—	—
P	6	" " " Inside	1	862 C 88	" " " " ord		—	37-2	—	—
P	7	" " ~~Handle~~ Fillers	4	862 B 88	" " " " ord		—	37-3	—	—
	8	" " Cap	—							
P	9	Draft Gear Key Washer	1	863 A 86	—	86 A 91	—	—	—	—
	10	Draw Casting—Front	—							
	11	" " —Back	—							
	12	Safety Chain	—							
	13	" " Clevis	—							
	14	" " Staple	—							
	15	" " Washer	—							
	16									
P	17	Chafing Casting	1		Franklin Ry Supply Co*	ord —	—	—	—	—
	18	" Iron	—							
	19	Spring Buffer	—							
	20	" " Case	—							
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34	**GROUP 87—TENDER DECK AND TOOL BOX**								
	35	Tender Deck	1	878 A 11	Angles & Plate & Bars Matl. ord		—	—	—	—
	36	" " ~~Shovel~~ Slide Plates	1-Set	"	3/8" Plate. ord	—	—	—	—	—
	37	" " Support, Outside L	1	"	3/8" " & Angle	—	—	—	—	—
	38	" " " Inside L	5	"	3" x 3" x 1/2" Angles	—	—	—	—	—
	39	" " Slope Sheet Support	1	"	1/2" Bent Plate. To Suit Ship	—	—	—	—	—
	40	" " " " Hinges	2	"	6" Ex Hvy "T" ord	—	—	—	—	—
P	41	Tool Box	1	873 A 29	#11 Ga. Steel Plate	—	—	—	—	—
P	42	" " Latch	1	"	—	87 A 63	—	—	—	—
P	43	" " ~~Handle~~ " Guide	1	"	—	87 A 64	—	—	—	—
P	44	" " " " "	1	"	—	87 A 65	—	—	—	—
P	45	" " ~~Brace~~ " "	1	"	—	87 A 66	—	—	—	—
P	46	" " Support	2	872 A 55	—	872 A 55	—	—	—	—
P	47	" " "	4	872 B-55	—	872 B-55	—	—	—	—
P	48	" Closet Hinge	2	880 A 30	6" Ex Hvy Strap. ord	88 A 196	—	—	—	—
P	49	" " ~~Lug~~ Eyebolt	2	"		470-S-213	—	—	—	—
P	50	" " Hasp	1	"	6" Ex Hvy Hasp ord	—	—	—	—	—
P	51	Tender Conveyor Support Angles L R	1	878 A 11	4" x 3 1/2 x 3/8" Angles ord	—	—	—	—	—
P	52	" " " Bars	1-Set	"	3/4" x 4" x 32 1/4"	—	—	—	—	—
P	53	Water Cooler	1	872 A 59	Galv. Can Ord on P.D.					
P	54	" " ~~Base~~ Hinges	2	"	3" Tee. ord	—	—	—	—	—
P	55	" " ~~Top~~ Knob	1	"	1" Porcelain Shutter Knob ord	—	—	—	—	—
	56	" " Lid								
P	57	" " Casing	1	"	Wood. Locate & Fasten to Suit Inspector	—	—	—	—	—
P	58	" " Cock	1	"	3/8" Crane #800 ord	—	—	—	—	—
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK								
	1	Tank—Water	1	880 A 30	23500 Gallon	—	—	—	—	—
	2	" Material Bill		88 M 0113 A	—	—	—	—	—	—
	3	" ~~Brace~~ Rivets		88 M 0114	—	—	—	—	—	—
	4	" ~~Knee~~ Coal Pick Hook	1	882 D-99	—	882 D-99	—	—	—	—
	5	" ~~Lifter Iron~~ Fire Rake Hook	1	~~882 C-92~~ 880-A-30	—	~~882 C-92~~ 88-A-~~115~~ 168	—	—	—	—
	6	" Drain Pipe	2	880 A 30	3" Ex Hvy Pipe. Otd	—	—	—	—	—
	7	" " " Flange	4	882 A 62	—	— 169	88-33	—	—	—
	8	" Fire Rake Hook	1	~~882 B-92~~ 880-A-30	—	~~882 B-92~~ 88-A-~~115~~ 169	—	—	—	—
	9	" ~~Fuel Bank~~ Grate Shaker Lever Brkt	1	882 E 99	—	882 E 99	Increase height to 2"			—
	10	" Tool Hook " " " "	1	882 F 99	—	882 F 99	Increase Height to 2"			—
	11	" ~~Lug~~ Try Cock Drain Pocket	1	822 A 165	1/8" Plate. Welded	to Tank & Frame	—	—	—	—
	12	" "	—							
	13	" Funnel	1	884 B-11	1/4" Plate ord	—	—	—	—	—
	14	" " Lid	4	"	3/16 " ord	—	—	—	—	—
	15	" " Hinge	8	882 A 107	—	—	—	88-128	—	—
	16	" " " Lug	8	"	—	—	—	88-129	—	—
	17	" " Handle	4	882 A 1	—	—	—	88-8	—	—
	18	" " Screen	—							
	19	" Coal Gate	1	883 A 62	1½"x10" Oak Plank ord		—	—	—	—
	20	Coal Gate Angle	2	"	2½x2½x3/8"	—	—	—	—	—
	21	" " ~~Catch~~ Pocket	2	"	—	—	—	88-31	—	—
	22	" " ~~Latch~~ "	12	"		—	—	88-30	—	—
	23	" " ~~Hinge~~ Bolts	1 Set	"	—	—	—	—	—	—
	24	" " " Lug	—							
	25	" " Chain	5	882 C 8	With one Brkt & 48"-½" Std. Coil Chain, ord. one End of Chain Attached to Eyebolt	882 C 8	—	—	—	—
	26	" " Eyebolt	5	"		882 C 8	—	—	—	—
	27	" " Slide Clamp	2	883 A 62	—	88 A 8	—	—	—	—
	28	" " Catch Bracket								
	29	" " Handle	2	883 A 62		88 A 3	—	—	—	—
	30	Tank Pail Hook	1	823 A 45	—	470 S-05	—	—	—	—
	31	Tank Cut Out for Stoker	—							
	32	" Control Conduit Casing	1	880 A 30	3" Ex Hvy Pipe ord	—	—	—	—	—
	33	" " " " Flange	2	882 A 62	—	—	88-33	—	—	—
	34	Tank—~~Oil~~ Cab Curtain Arrgt		234 A 29	—	—	—	—	—	—
	35	" ~~Material Bill~~ " Eyebolt	4	"	—	23 A 392	—	—	—	—
	36	" ~~Brace~~ Sprinkler Reservoir Support	1	880 A 30	Plate	63 B-119	—	—	—	—
	37	" Lifter Iron								
	38	" ~~Lug~~ Slope Sheet Step	3	882 A 113	½" Plate	~~882 A 113~~	—	—	—	—
	39	" = " " "	2	882 B-113	½" "	~~882 B 113~~	—	—	—	—
	40	" ~~Funnel~~ Tool Closet Latch	1	880 A 30	Last 30 Tenders	470 S-324	—	—	—	—
	41	" " Lid								
	42	" " Hinge								
	43	" " " Lug								
	44	" " Screw								
	45	" " Handle								
	46	" " Gasket								
	47	" " Screen								
	48	" Water Spout Hook Support	2	880 A 30	Welded to Tank	88 B-111	—	—	—	—
	49	Water Spout Hook	1	—	—	88 A-112	—	—	—	—
	50	Coal Pusher								
	51	Stoker Eng Cmpt. Door Arrgt		883 B 51	—	—	—	—	—	—
	52	" " " " Latch Lug	2	"	—	88 A 143	—	—	—	—
	53	" " " " " "	2	"	—	88 A 149	—	—	—	—
	54	" " " " Latch	1	"	—	88 B 160	—	—	—	—
	55	" " " " Hinges	3	"	4" Ex Hvy Butt ord	—	—	—	—	—
	56	" " " " Latch Handle	1	732 B 4	—	—	—	73-72	—	—
	57	" " " Door Handle Frame	1	882 A 102	—	—	—	—	88-126	—
	58	" " " " Handle	1	"	—	88 A 159	—	—	—	—
	59									
	60									
	61									

1122 C&O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 89—TENDER TRUCK								
D	1	Truck 7"x 14	2	Genl Steel Cstg's 21561-A~~A~~E	Genl Std. ord	—	—	—	—	—
	2	" Arch Bar	—							
	3	" Truss Bar	—							
	4	" Tie Bar	—							
	5	" Columns	—							
	6	" "	—							
D	7	" Bolster	2	G.S.C.Co 21804 A	Genl. Steel ord	—	—	—	—	—
	8	" " Guide	—							
	9	" " Bar	—							
	10	" " Cap	—							
	11	" " Truss Rod	—							
	12	" " " " Washer	—							
D	13	" Center Plate	2	G.S.C.Co 21804	Genl. Steel. ord	—	—	—	—	—
D	14	" King Bolt	2	892 F-88	—	892 F-88	—	—	—	—
	15	" " " Keys	—							
	16	" Spring Plank	—							
D	17	" " Seat—Top	8	G.S.C.Co 21561C	Plate 3/8" x 8½ Dia with 3"x 5" Slot	—	—	—	—	—
D	18	" " " —Bottom	8	892 C-80	—	—	—	89-226A ✓	—	—
D	19	" " Hanger End	8	892 A 138	Drop Forged ord	—	—	—	—	—
D	20	" " "	16	892 B-138	" " ord	—	—	—	—	—
	21	" " " Gib	—							
D	22	" Side Bearing Arrangement	—	892 A 142	~~¼~~ 5/16" Min. Clearance F. R.	—	—	—	—	—
D	23	" " " Block	4	"	—	16"x4"x1½" or To Suit Clearance	—	—	—	—
D	24	" Frame	2	G.S.C.Co 21803-E	Genl. Steel ord	—	—	—	—	—
	25	" " Brace	—							
	26	" " Crosstie	—							
	27	" Pedestal	—							
	28	" "	—							
D	29	" " Cap	12 ~~4~~	G.S.C.Co 21561-~~A~~E	—	89 F9	—	—	—	—
D	30	" " " ~~=~~	~~2~~	"	—	~~89 B 124~~	—	—	—	—
D	31	" Equalizer	8	G.S.C.Co 21814-B	Genl. Steel. ord	—	—	—	—	—
D	32	" Swing Link Pins, Top	8	892 A 141	Case Hardened	892 A 141	—	—	—	—
	33	" Swing Frame	—							
D	34	" " Link	8	892 C 125	Malt. ord	892 C-125	—	—	—	—
D	35	" " Pins Bottom	8	892 B-141	Case Hardened	892 B-141	—	—	—	—
D	36	" Check Chain	8	892 A 139	1" Chain Ord	892 A 139	—	—	—	—
	37	" " " Bolt	—							
	38	" " " Clevis	—							
	39	" " " Pocket	—							
D	40	" Swing Link Bushings	16	892 C 125	Case Hardened Malt. ord	—	—	—	—	—
D	41	" Center Plate Shims	4	G.S.C.Co 21561-~~A~~E	½" x 20¾" x 26½" Plate. ord	—	—	—	—	—
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

1122 C&O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 90—TENDER WATER SCOOP								
	1	Water Scoop								
	2	Scoop Cylinder								
	3	" " Head								
	4	" " "								
	5	" " Gland								
	6	" " Support								
	7	" " "								
	8	" Piston								
	9	" " Follower								
	10	" " Rings								
	11	" " Rod								
	12	" " " Jaws								
	13	" " " Extension Links								
	14	" Inside Pipe								
	15	" Outside Pipe								
	16	" Air Pipe Casing								
	17	" Neck								
	18	" Splash Hood								
	19	" Dipper								
	20	" " Link								
	21	" " Lifter								
	22	" " Nose								
	23	" " Shield								
	24	" " " Brackets								
	25	" Shaft								
	26	" " Fulcrum								
	27	" Bell Crank								
	28	" Arm								
	29	" Spring Cap								
	30	" " Rod								
	31	" " Seat								
	32	" " " Support								
	33	" Jaws								
	34	" Rods								
	35	" Lever								
	36	" Link								
	37	" Bracket								
	38	" Brace								
	39	" Pipe Hanger								
	40	" Joint Piece								
	41	" " " Trunion Cap								
	42	" " " " "								
	43	" " " Lifting Links								
	44	" " " " "								
	45	" Delivery Pipe Hanger								
	46	" " " " Clamp								
	47	" " " " Clips								
	48	"								
	49	"								
	50	" Operating Valve								
	51	" " " Cap								
	52	" " " Plug								
	53	" " " Nut								
	54	" " " Handle								
	55	" " " Quadrant								
	56	" " " Spring								
	57									
	58									
	59									
	60									
	61									

X 1122 C&O

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 95—WHEELS AND TIRES								
D	1	Truck Wheel 36"	12	Am. Rolling Mills Pt. W-332		OB —	—	—	—	— 5/1 ⊕ 4/26
	2	Wheel Pressed on Axle (Tons)								
	3	Wheel Center	—							
	4	" Tire	—							
	5	Tire Retaining Ring	—							
	6	Wheel Numbers								
	7									
	8									
	9									
	10									
	11									
	12									
	13									
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron

Material Specifications

July 31-1930

Printed by
The Ryan Litho. Co.
Toledo, Ohio